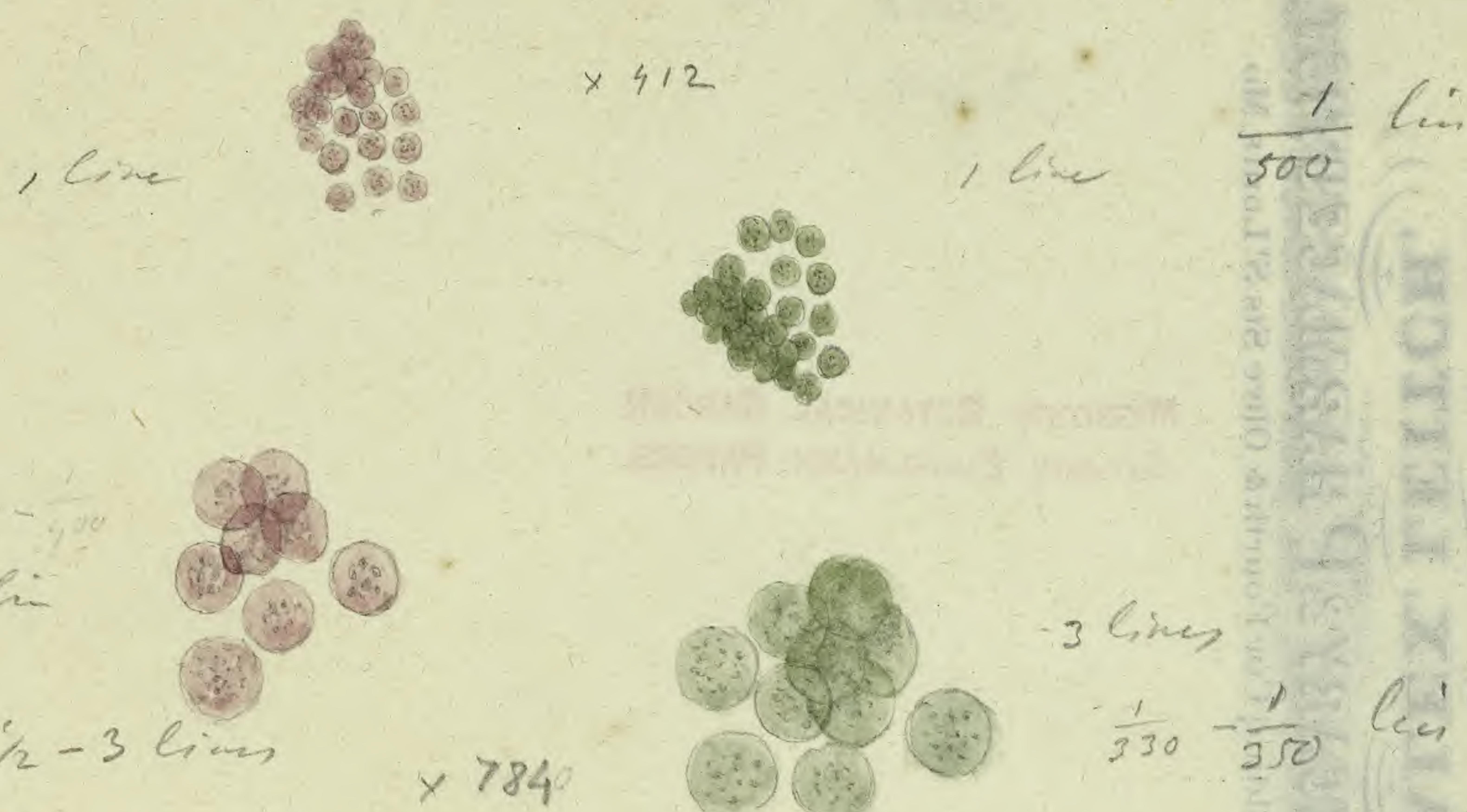




# GEORGE ENGELMANN BOTANICAL NOTEBOOKS

*Pagination Note:  
Since many of the items lack a specific  
page number, the page number displayed  
online refers to the sequentially created  
number each item was given upon  
cataloging the materials.*

Stone's Sept 1860



covering tremella like wth ground in  
large patches; at first olive green  
at last red., globular cells 0.002 - 0.003  
lines diameter



0 1 2 3 4 5 6 7 8 9 10  
cm

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BOTANICAL  
GARDEN

ALEX. LETTCH,  
APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

250  
10000  
3/1000

1  
400  
330

14048

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0 1 2 3 4 5 6 7 8 9 10

cm

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Sept 11 1867

within Lemma polytrichoides



wall of  
fungus x415

Hill Atches

Nov. 1865



contents x 415



fungus between the  
intact epidermals of  
Lemma polytrichoides in Nov. ab.  
parasitic on a sporangium  
versely destroyed.



0 1 2 3 4 5 6 7 8 9 10

cm

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COR. 4TH & OLIVE STS., ST. LOUIS.



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0 1 2 3 4 5 6 7 8 9 10

cm

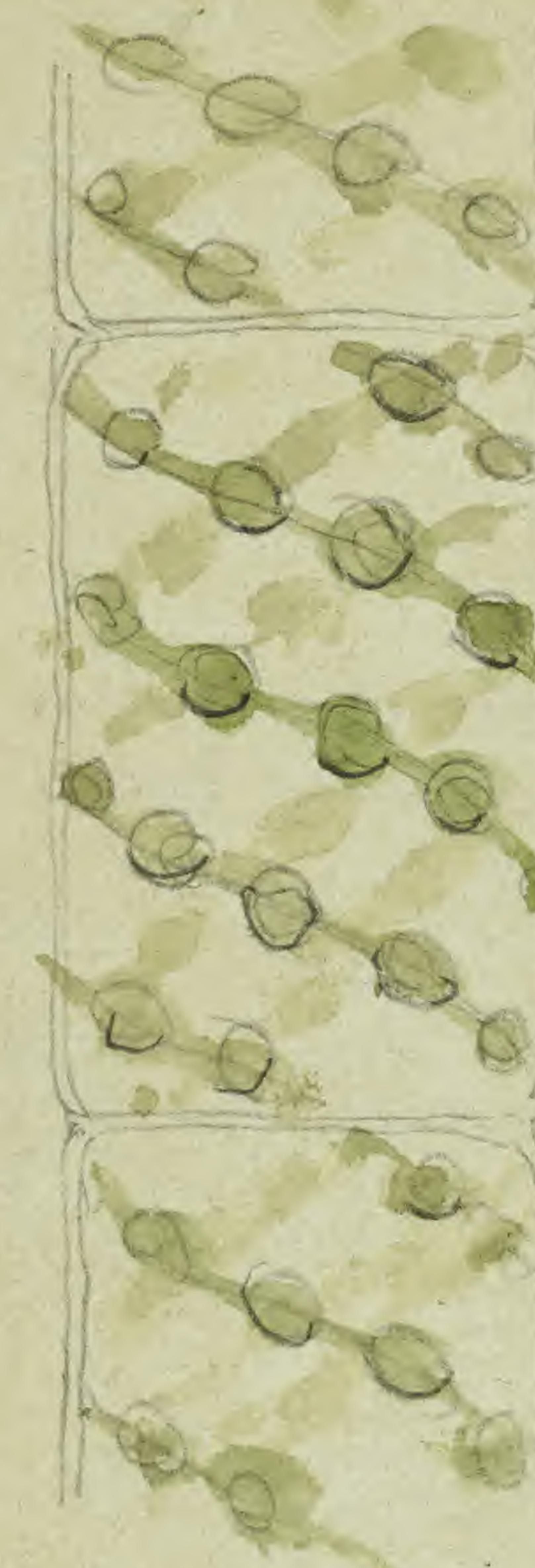
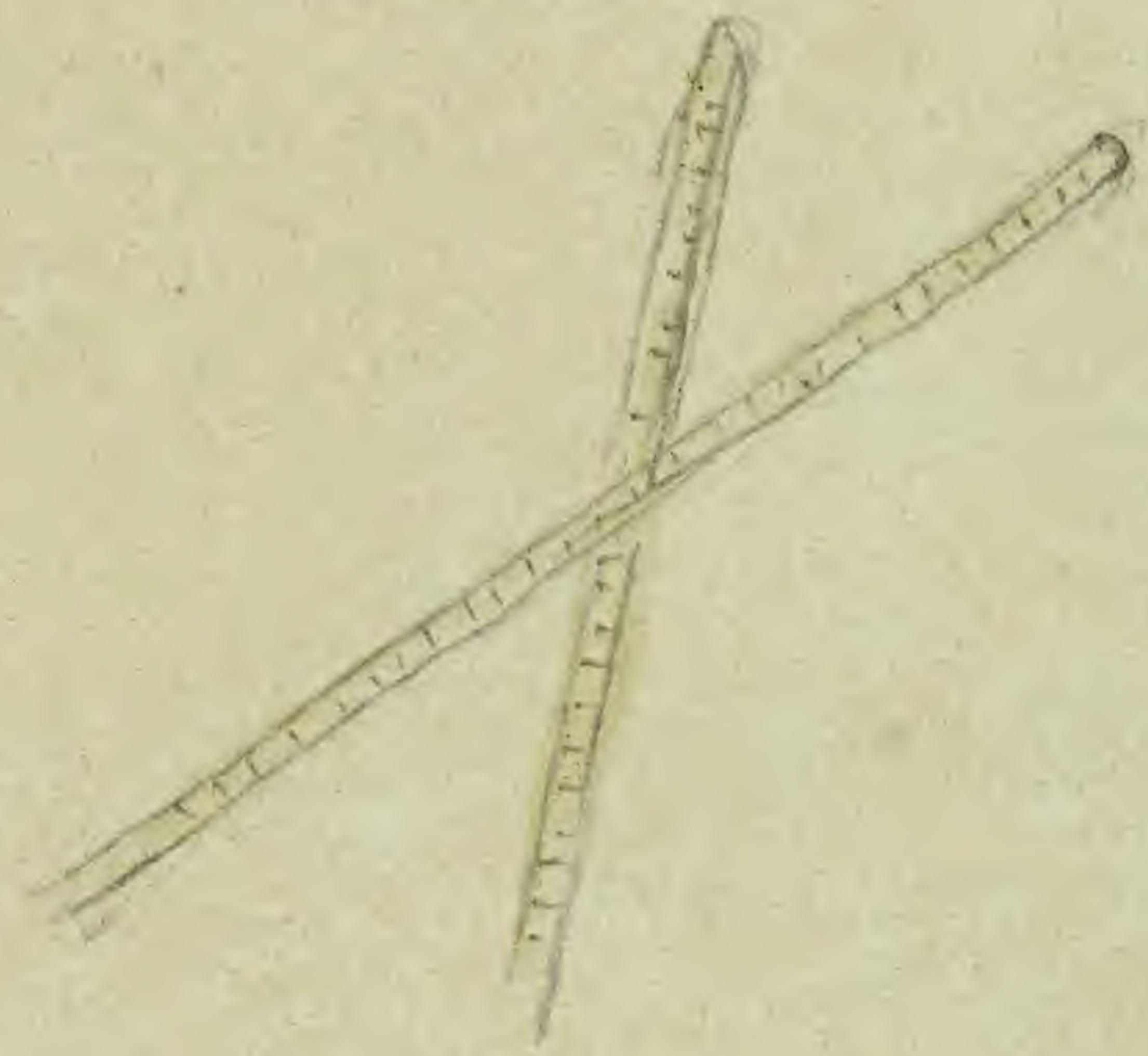
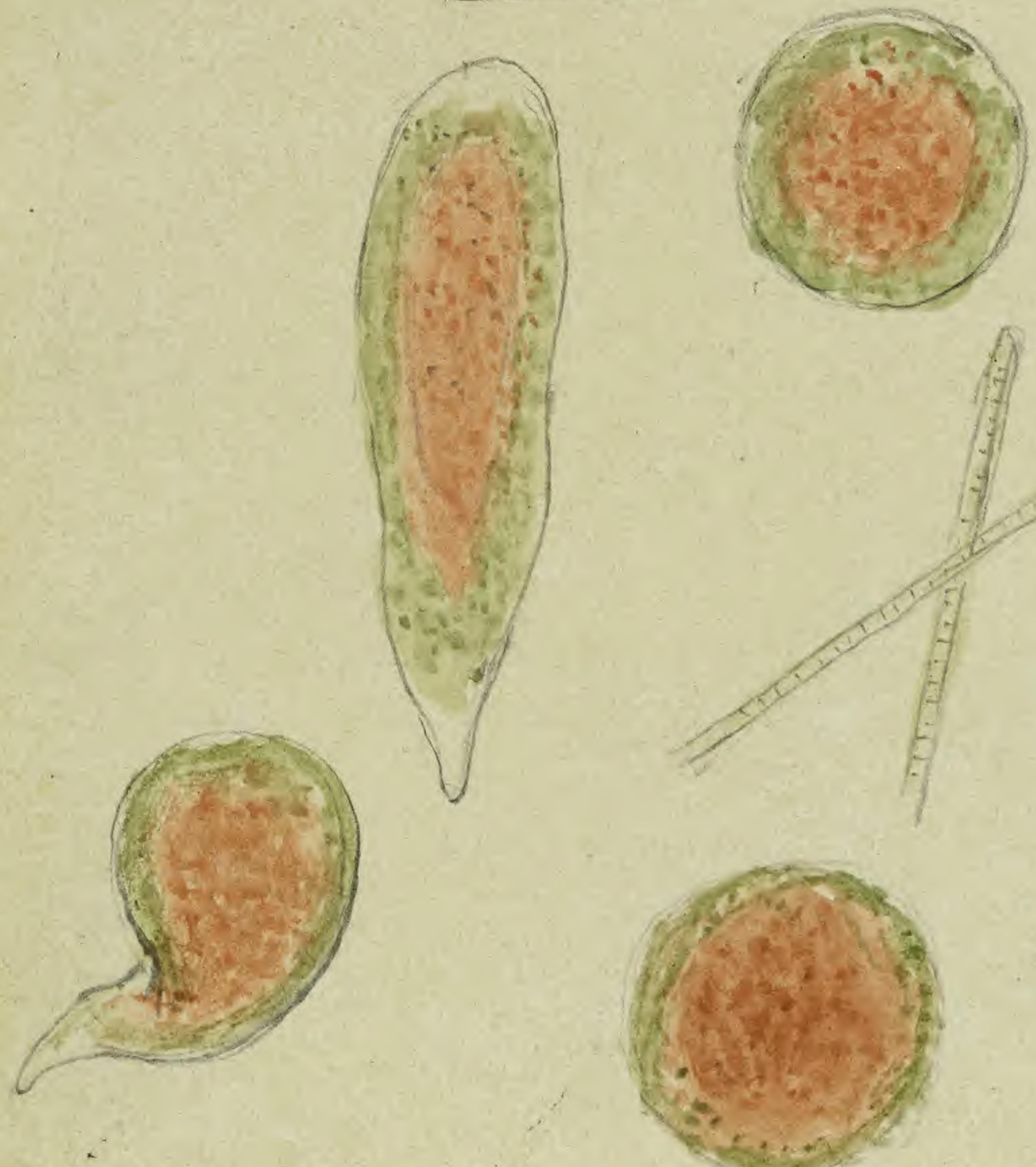
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July 14<sup>th</sup> 1861

X 412



human hair



0 1 2 3 4 5 6 7 8 9 10  
cm

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M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS,  
ST. LOUIS.

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14050



0  
cm

1

2

3

4

5

6

7

8

9

10

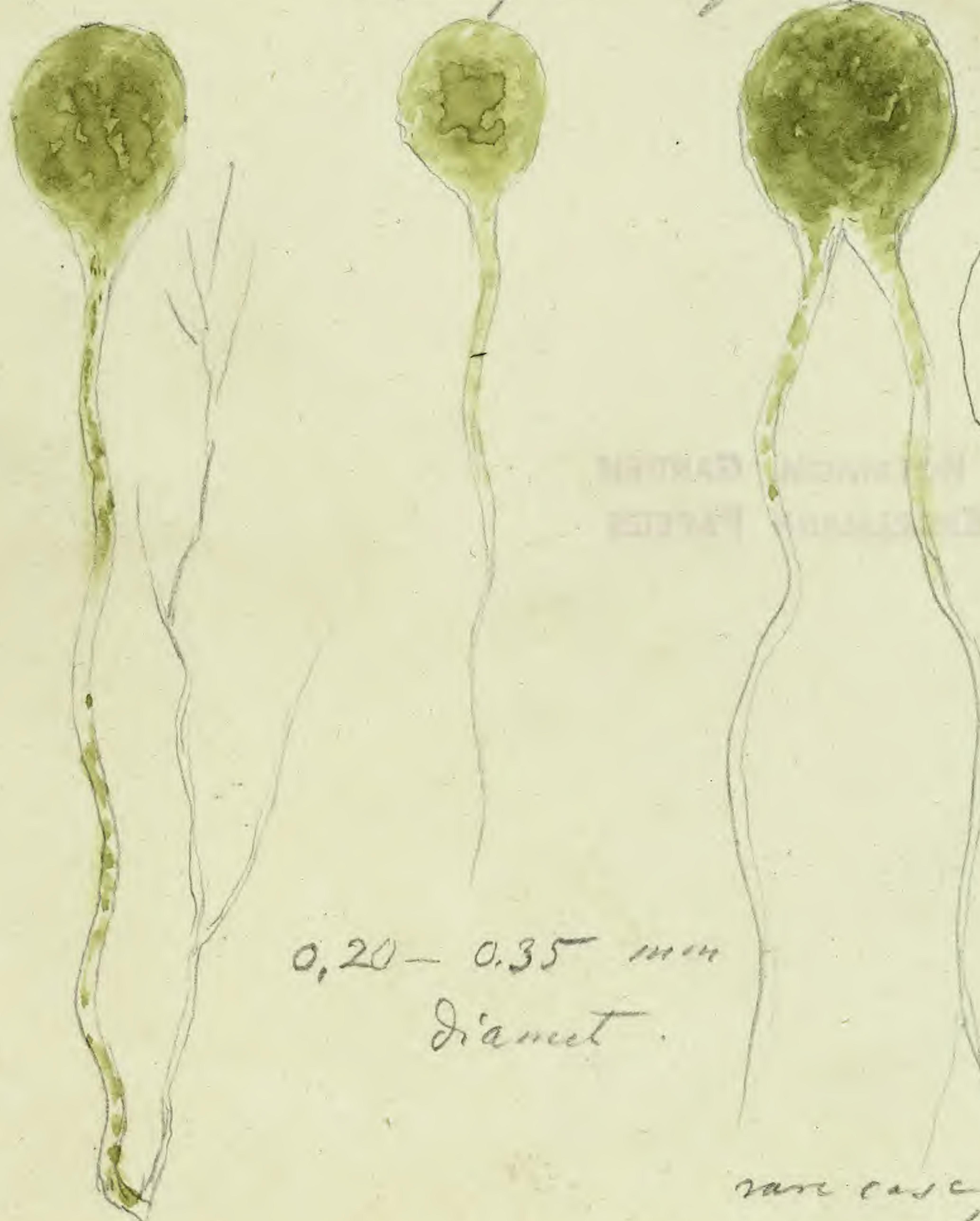
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Siebold Suppl III  
N 260 p. 20

*Botrydium argillaceum* Wally June 25- 1865  
*x60 Hydrogaster granulatum* D. S. G.  
on the soil of the  
Engelmann's  
vineyard



supposed to be  
in some connection  
with grape fungi.

a single cell  
elongated into  
a root - chloro-  
phyll - root only  
after death &  
rotting??

rare case, 2 roots



0 1 2 3 4 5 6 7 8 9 10

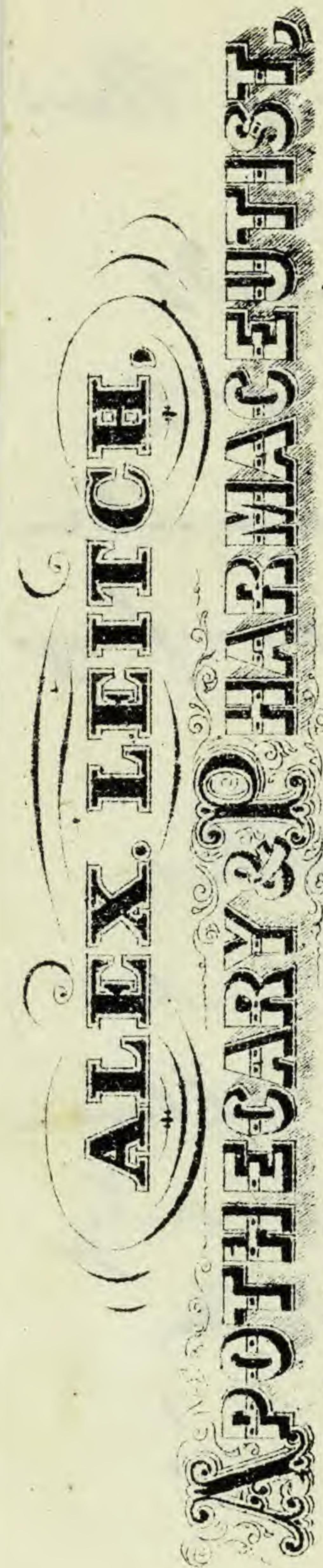
cm

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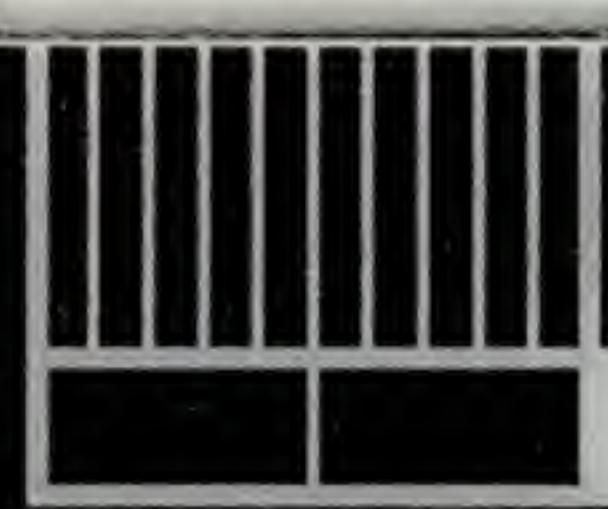
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0 1 2 3 4 5 6 7 8 9 10

cm

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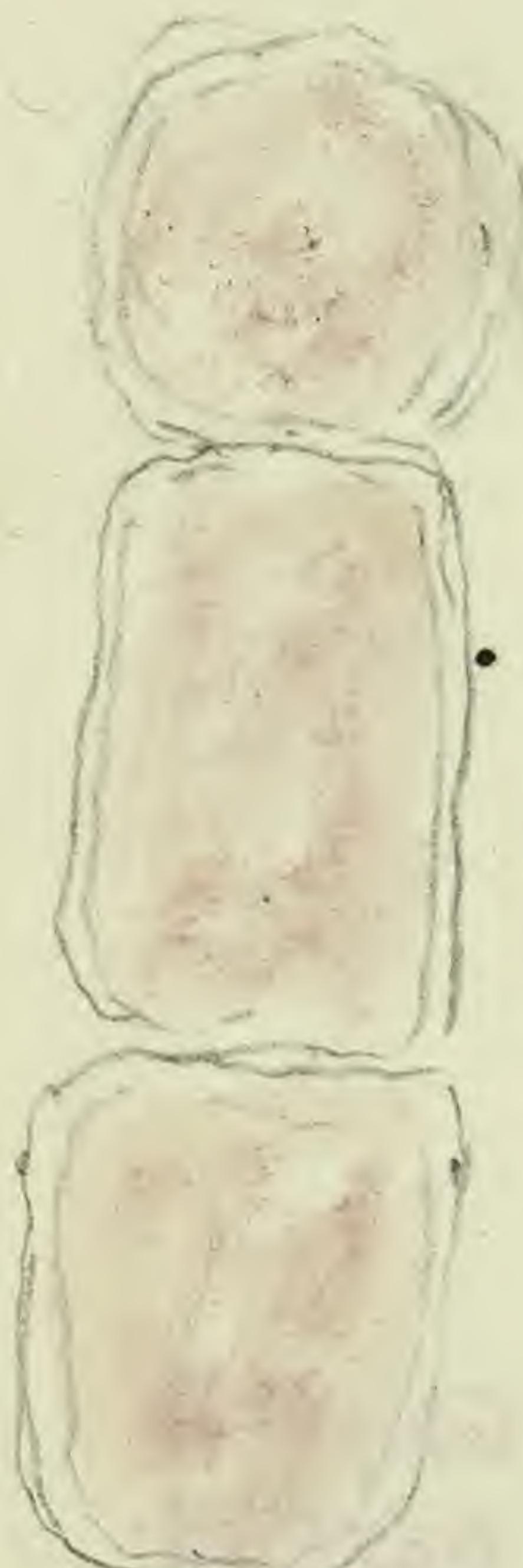
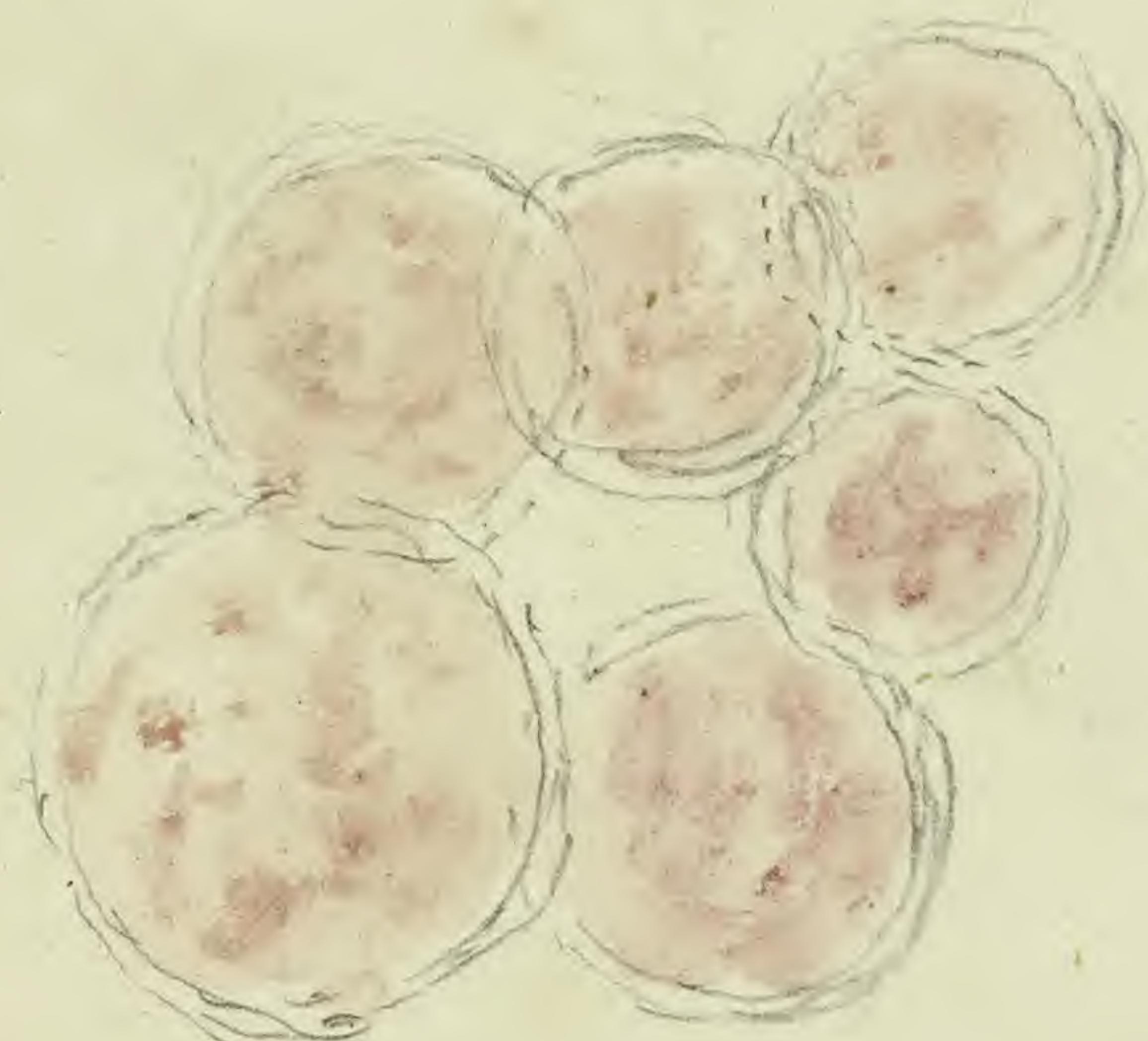


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La Pl. suppl II  
p 10

*Protoscoleces*

$\times 785$



$$\frac{12 - 20}{785} = 0.015 - 0.025$$

mm  
diam

June 25 1867

On the soil of New  
England (Vtigard)

Supposed to be in  
connection with  
the grape-fungi



0 1 2 3 4 5 6 7 8 9 10

cm

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140.52

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cm

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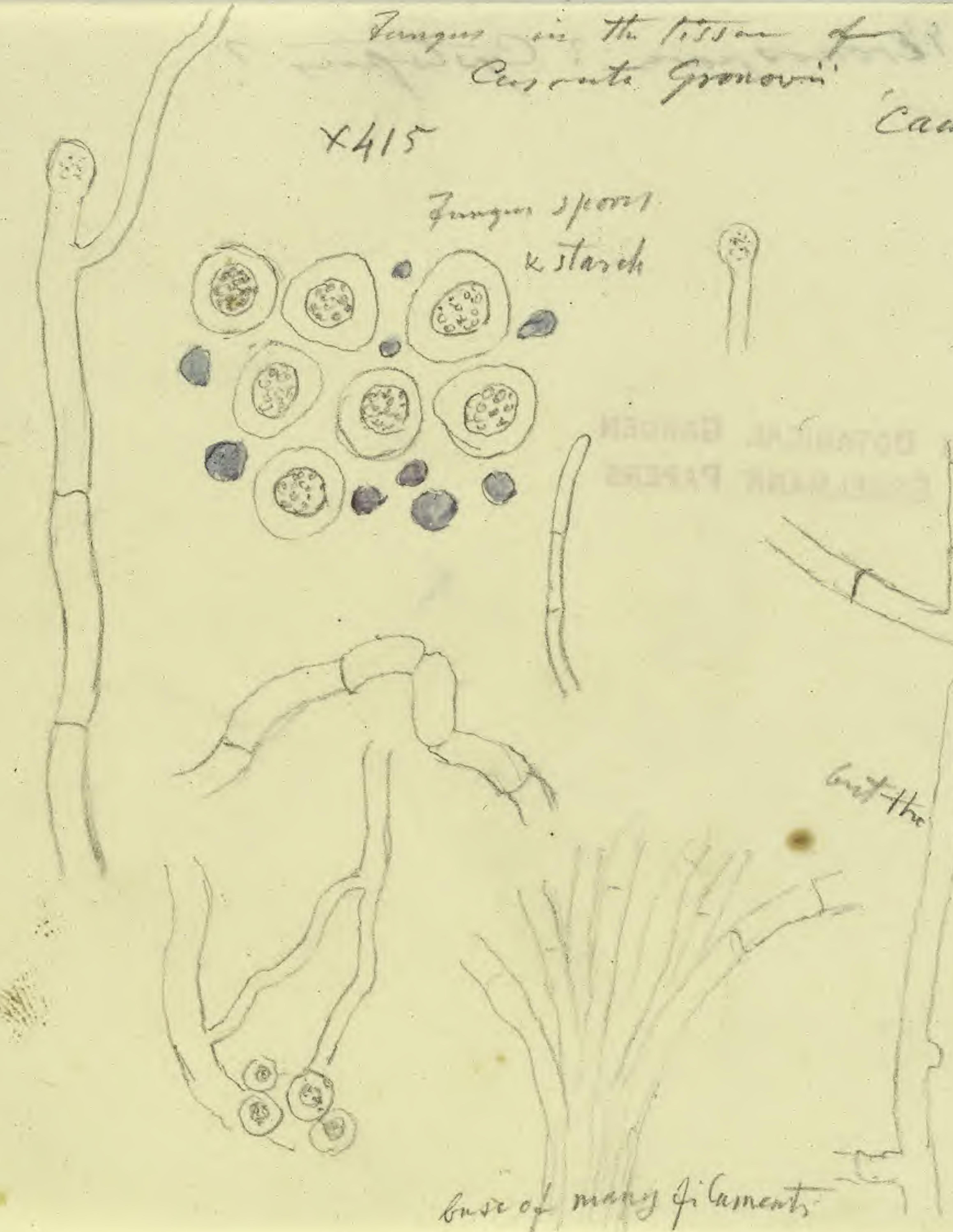


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Fungus in the tissue of  
*Cassiaute Gramovii*

Sept 22, 1873

X415



Caarden N. Jersey  
J. C. Martindale

germinating spore?  
from thickened  
corolla lobes

Mycelium outside, on some  
fresh flowers - perithe  
probable  
associated  
in the package  
(Damp)  
abundant  
within some  
cally healthy flowers  
produced



0 1 2 3 4 5 6 7 8 9 10  
cm

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Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

?*Cronospora*? *Cystopus*?

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ESOHL



0 1 2 3 4 5 6 7 8 9 10

cm

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*Agaricus campestris*

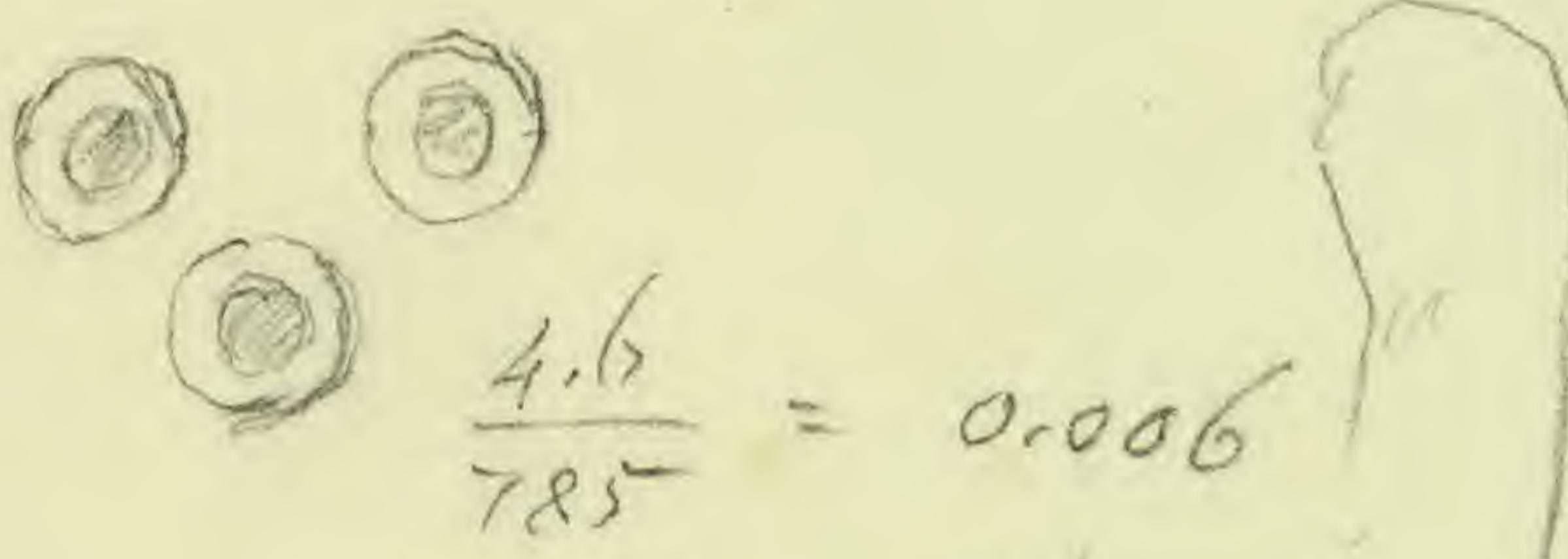
Oct 6 1873

spores, light brown, magnified - in mass black  
usual size

smile



$$\frac{2 \text{ mm}}{415} = 0.005$$



usual size

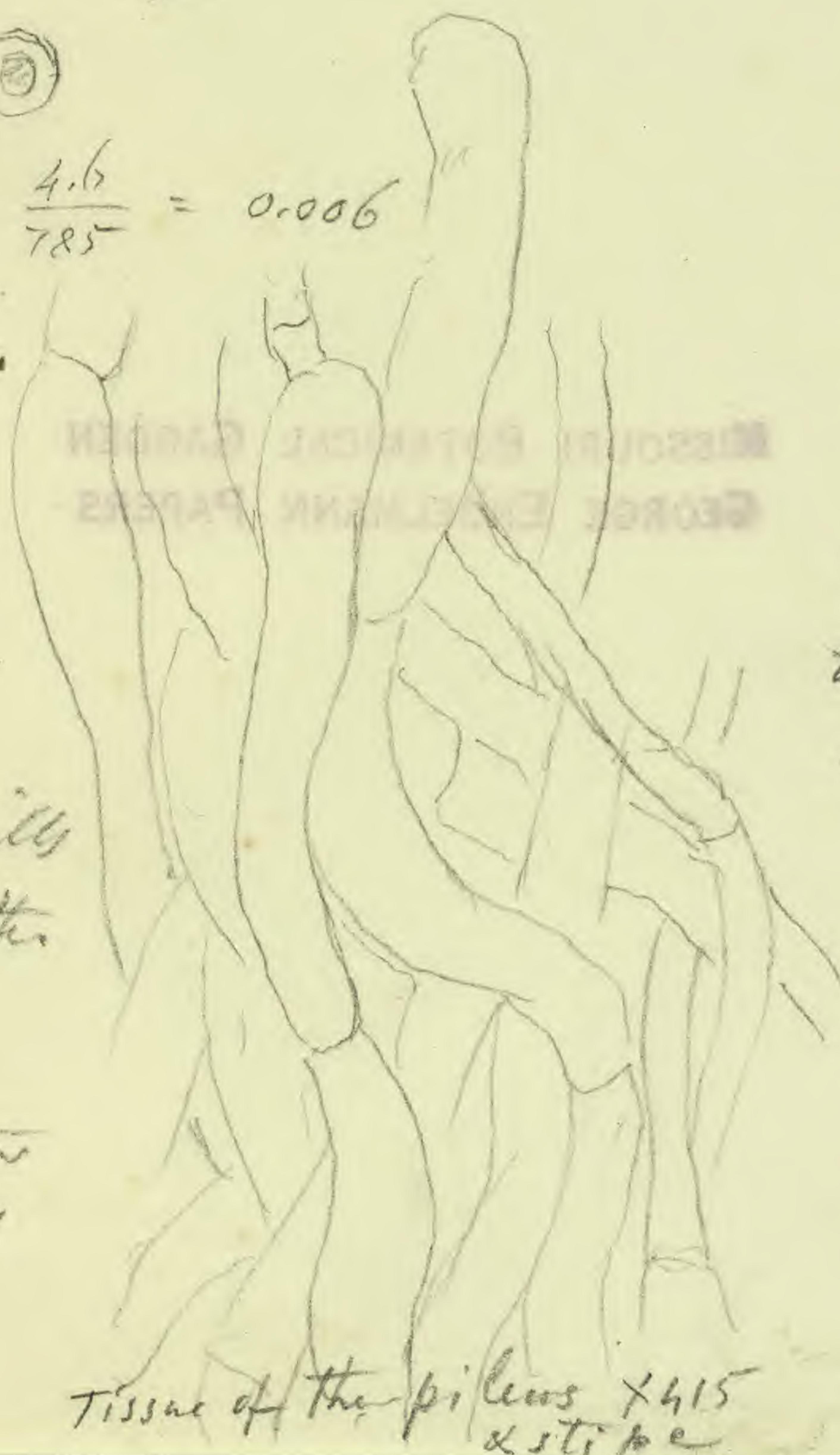


$$\frac{2.6 \text{ mm}}{415} = 0.006$$



tissue of the gills  
or plates, the  
Hymenium.

$\times 415$   
Same diameter  
as spores



The same seems  
to be the structure  
of the epidermis

D. D. COOK

W.M. COOK & W.M. BLUMER



0 1 2 3 4 5 6 7 8 9 10

cm

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14054

D'OEUNCH & CO.,  
APOTHECARY,  
S. W. Corner of Second & Mulberry Streets,  
ST. LOUIS, MO.

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0 1 2 3 4 5 6 7 8 9 10

cm

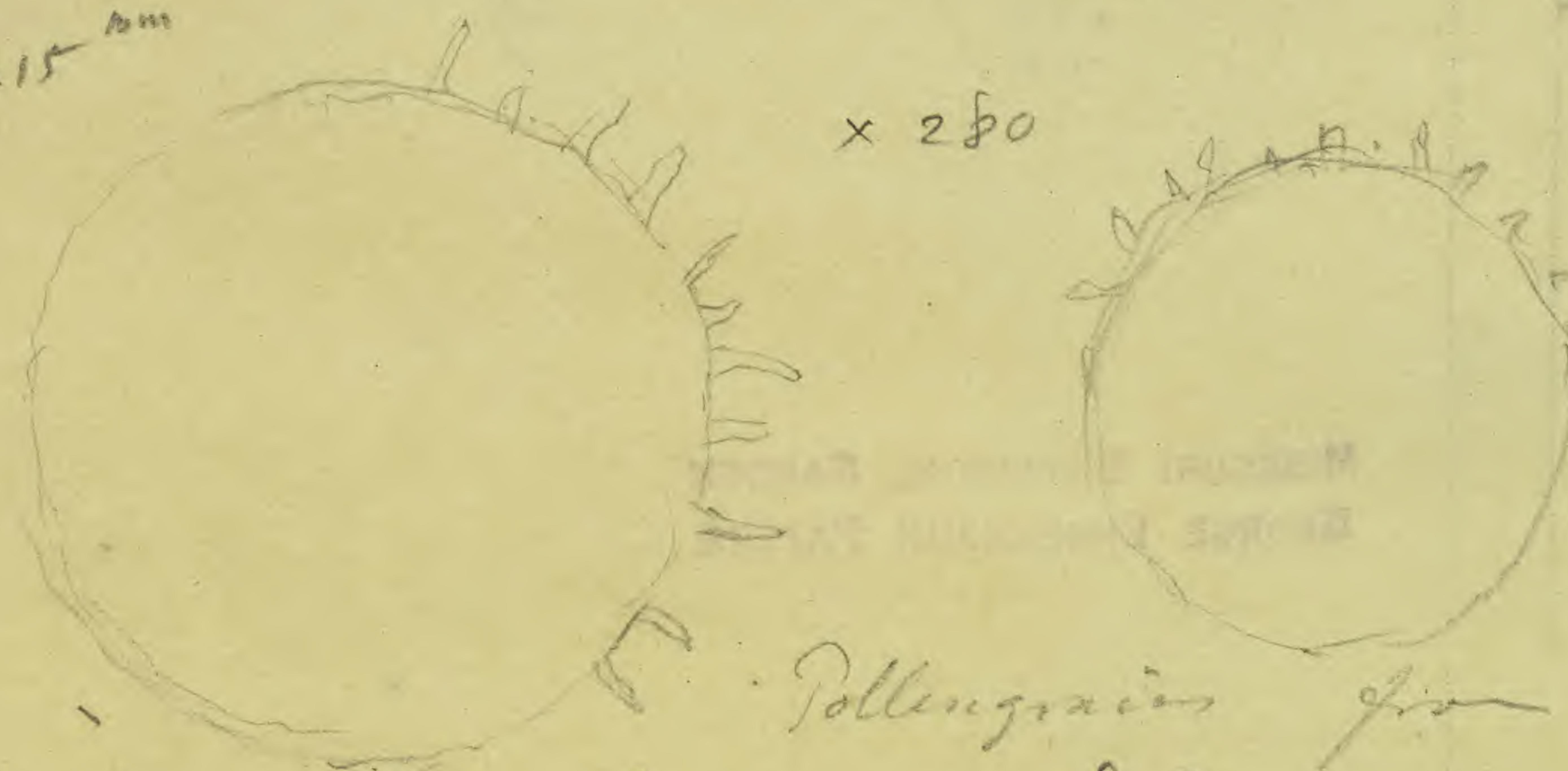
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Nov 1877

$$\frac{33}{280} = 0.15 \text{ mm}$$



Pollen grains from  
'Bee bread'

are the excrescences a mycelium or  
are they natural appendages to the pollen?

Var

$$\frac{31}{280} = 0.11 \text{ mm}$$



0 1 2 3 4 5 6 7 8 9 10  
cm

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Dentist's Office Apothecary.

GEORGE ENGELMANN



No. 3610 North 10th Street,  
Between Mallinckrodt and Salisbury,  
ST. LOUIS, MO.

187

No.

For

R.P.

280 / 330  
22 / 0,15  
150 / 310  
140 / 0,11

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0  
cm

1 2 3 4 5 6 7 8 9 10

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55011

Rige von Ch Geys  
gewidet

St Louis 1837.



0  
cm

1 2 3 4 5 6 7 8 9 10

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14056

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0  
cm

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"Floating lichen. California.  
Bolander 1867"

sp? Hydrothyria foata

Russ. in Trans. Ess. Inst.  
(ex Tuck.) ; Nylander  
*Syn. Lich.* p. 135

"Evernia Fremontii. California  
Bolander 1867" sp? Russ. & B.  
in *Brommavifex*, non *Renealmia*  
Bryoplium *Ogavacinae* sp?  
niss Evernia s. *Alectoria*  
*Fremontii*, vel sp. *Bromm. et*  
*franckm. sp?*, pecking

Evernia vulpina Ach.

sp? Chlorella vulpina

Nyl. Prod. p. 65  
lichen vulpinus, Lin  
Nyl. Prod. p. 274.  
sp? *Chlorella* <sup>*syn. Lich.*</sup> *vulpina* = *Chlo-*  
*rella* *vulpina*.

Nylander Synopsis Lichenarum tom I  
Paris 1860 (alas vel officina)



0 1 2 3 4 5 6 7 8 9 10  
cm

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Specimen #131, Handwritten  
with the date of August 24, 1871.  
Engelmann, (H. W.)  
and his wife, H. C. Engelmann,  
of St. Louis, Missouri.  
The specimen was collected  
in the hills of the Missouri River  
between St. Louis and the  
Mississippi River.

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GEORGE ENGELMANN PAPERS

May 1871

Y. 1871

14051



0  
cm

1 2 3 4 5 6 7 8 9 10

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Engelmann

Moss sp

*Leucodon julaceus* Sulliv  
*Osmunda cinnamomea* L  
*Hypnum* — L  
*Mnium spudoaloperca*  
(Müll)

water fern sp

*Cladophora* Montagne K (Lab)  
var sp form of *C. fasciata*  
in rock crevices in unbaked  
clay also in limestone  
rocks; good root system

Fig of *Sycozoa* var with roots



0 1 2 3 4 5 6 7 8 9 10  
cm

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GARDEN

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Scanning



0  
cm

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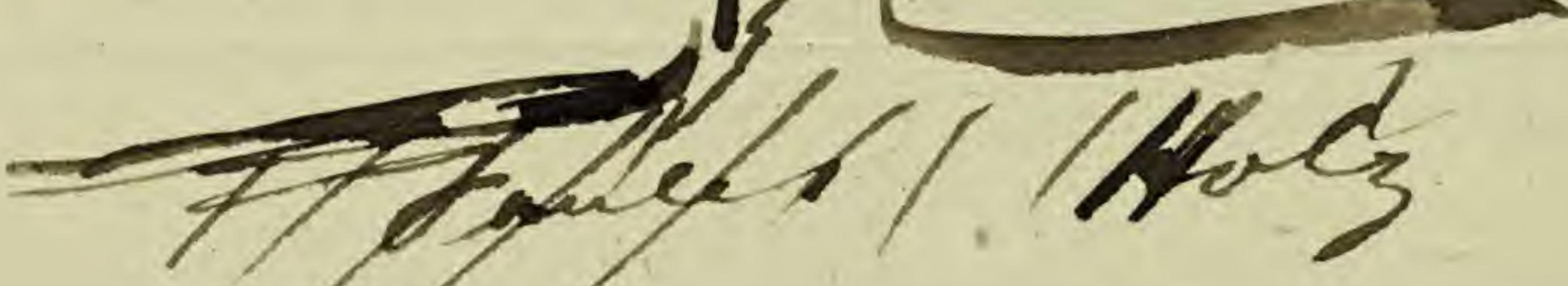
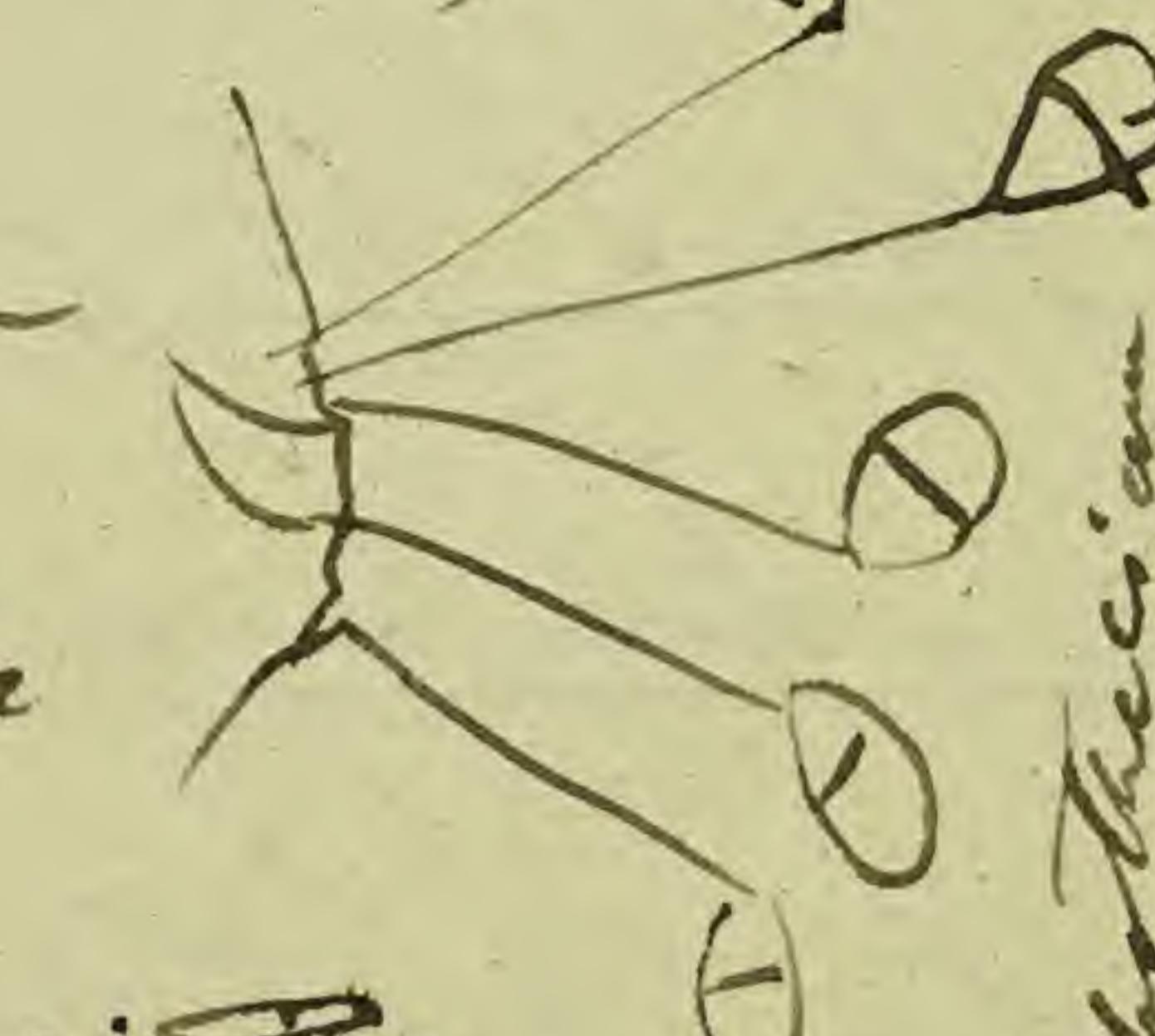


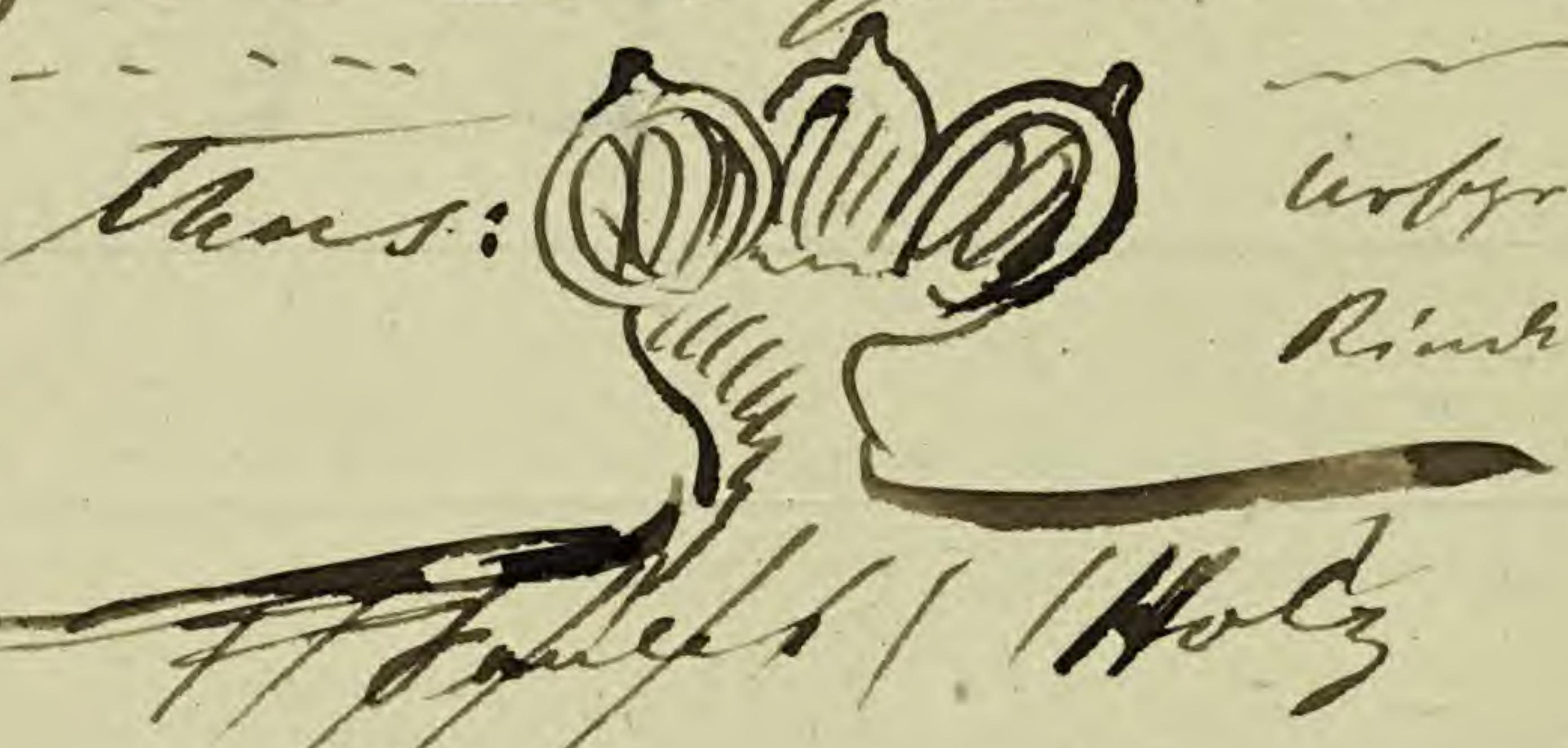
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BOTANICAL  
GARDEN



四〇五

provincie = provincie van de vissengang en voor de vissengang  
vissen en voor de vissengang en voor de vissengang

Ist ei <sup>Nectria</sup> ~~fungus~~<sup>fungus</sup> = <sup>and if</sup> Tremboisia sp. a. oblate,  
 eist, so kann es Abcidium cyathum  
 (aell iugum aen iugum) nicht sein  
 Sphaeriacearum <sup>pro</sup> in - bepunktet mit d.  
 Rinde abfällt, thas:  <sup>rohr.</sup>  
 bei der Sph.  
 effusa (oder  <sup>Rinde</sup>  
 lumenigen enamel-Typus!) kommt es  
Larva Zugfauertyp, quaz viert Schneide  
des Typus "Lachpunkt", Fruchtkörper <sup>mit Gitternetz</sup>  
 Ob es Gray's <sup>will</sup> or Nectria gift,  
 lässt sich nicht einmal bestimmt  
 wifponi' re lac-doppon (Tubercu-  
 laria) wiepla ei Spindler family Smith  
 small giftangstalfer   
 (Dichotomia roseum) warfha  
 bei report in Krieger, p. 1900:  
 06011. <sup>gallinae</sup> <sup>Dichotomia</sup>  
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0  
cm

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Fifths Trichothecium etc

Zwei Fünftel Drosophilatration  
und ein Formicazellen Tissue

Die Räucherung ist - auf dem Stück und  
durch grünes oder offenes Feuer -  
wirksam gegen gewaltige Botrytis,  
Von der Stoff Räucherung ist  
nicht sehr (ausgezehrt)

Trichothecium bestehen

Abyfallen wurde 1' manigfach

am Grünen grünen Tisch

Vibrionen-Lungen auf die

grüne grüne Grünwurz

wurden de Bary'sche Zahnkrautsporen

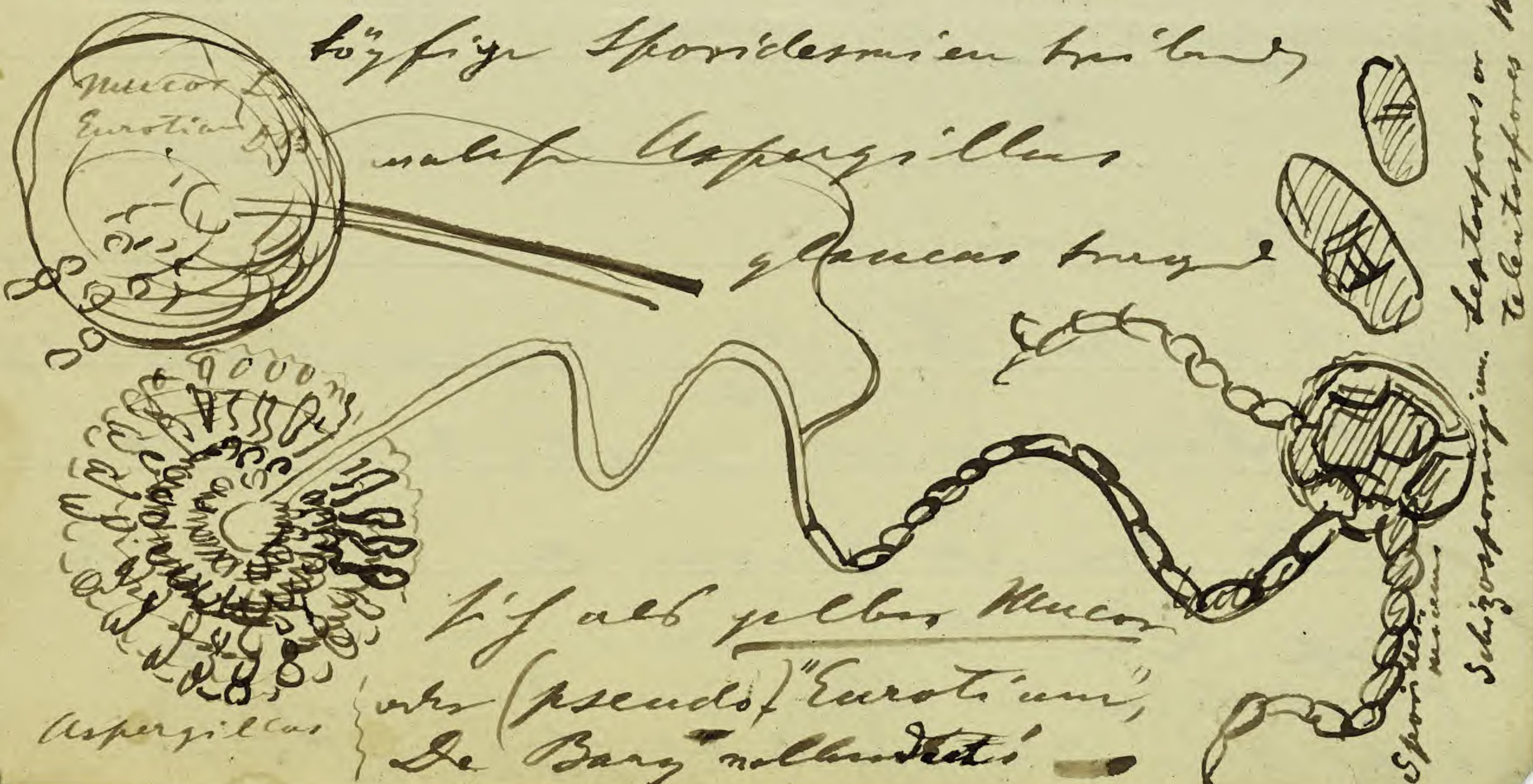
(Septosporium) und Hallier'sche

Sigillariengewächse (sic!) durch, vorzugsweise

längliche Sporodesmien herab

oder Aspergillus

Glauca bray



grüne  
Zellen  
Trichothecium  
Vibrionen  
Sporodesmus

Vibrionen  
Sporodesmus

Vibrionen  
Sporodesmus

Vibrionen  
Sporodesmus

Vibrionen  
Sporodesmus

Vibrionen  
Sporodesmus



0 1 2 3 4 5 6 7 8 9 10  
cm

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Die auktorisirte Form ist offensichtlich  
die grünliche Form, die mit  
Kohleblättern vermischt ist. An Meeres-  
rassenen unter Penicillium ist - (siehe  
Platte in "Eymot'sche Fungus"). Die Form  
der *M. racemosus* ist nicht, fand aber  
falls sie der *Marinellia*-Rasse oder  
der *Urticina*, die nicht in zwei Gruppen  
zu unterscheiden ist (latter)  
die grüne Form fast gleichzeitig  
wuchs mit *Penicillium* der *Urticina*, wie  
im Falle 6 dieser *Penicillium* glauca  
waren - und sie waren sehr stark  
verdorbt auf Cottonwoodblättern  
die ein grauliches Blatt erzeugt  
grau-grauishen farben *Sphaeria* gab und  
aber nicht mit *Urticina* vermischt waren.  
Die *Acidian*-Form die man ebenfalls  
erhält aus der *Acidian*-eigentlich - nicht  
wie *Desmodium* artig vermischt haben kann;  
wie bei der *Calyptera* oder *Cladophora*.  
Durch die Barze etc.

(Viele Sphaeriene bildeten sich dann  
hierin und wirkten meistens mehr oder weniger  
trübe.)



0 1 2 3 4 5 6 7 8 9 10  
cm

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